MD 648 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

PROPOSED SIGNALS

1-8
R
Y
G
12"

PROPOSED SIGNS

16	15	14	17
SOUTH MARYLAND 648 ←	SOUTH MARYLAND 648 →	NORTH MARYLAND 648 ←	NORTH MARYLAND 648 →
SHIELD ASSEMBLY 30"x51"	SHIELD ASSEMBLY 30"x51"	SHIELD ASSEMBLY 30"x51"	SHIELD ASSEMBLY 30"x51"

EXISTING SIGNS TO BE RELOCATED

10b ⇦ Pasadena RD — D3-2 DUAL FACE SIGN (VAR. X 16")

10a Pasadena RD ⇨ — D3-2 DUAL FACE SIGN (VAR. X 16")

9a ⇦ Catherine AVE — D3-2 DUAL FACE SIGN (VAR. X 16")

9b Catherine AVE ⇨ — D3-2 DUAL FACE SIGN (VAR. X 16")

11a,11b,12a,12b Balt-Annap BLVD — D3-2 DUAL FACE SIGN (VAR. X 16")

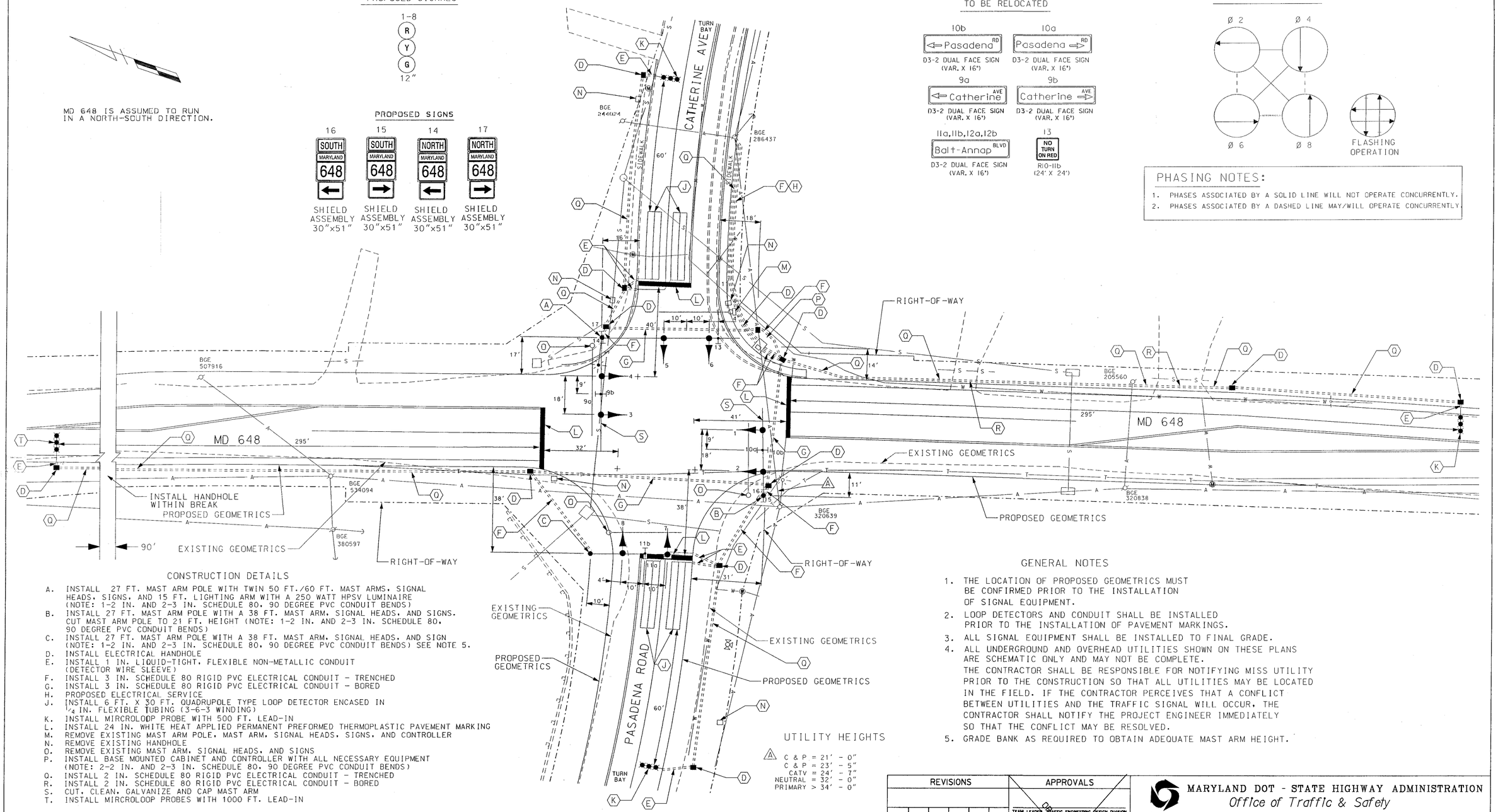
13 NO TURN ON RED — R10-11b (24" X 24")

NEMA PHASING

FLASHING OPERATION

PHASING NOTES:

1. PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.
2. PHASES ASSOCIATED BY A DASHED LINE MAY/WILL OPERATE CONCURRENTLY.



CONSTRUCTION DETAILS

A. INSTALL 27 FT. MAST ARM POLE WITH TWIN 50 FT./60 FT. MAST ARMS, SIGNAL HEADS, SIGNS, AND 15 FT. LIGHTING ARM WITH A 250 WATT HPSV LUMINAIRE (NOTE: 1-2 IN. AND 2-3 IN. SCHEDULE 80, 90 DEGREE PVC CONDUIT BENDS)
B. INSTALL 27 FT. MAST ARM POLE WITH A 38 FT. MAST ARM, SIGNAL HEADS, AND SIGNS. CUT MAST ARM POLE TO 21 FT. HEIGHT (NOTE: 1-2 IN. AND 2-3 IN. SCHEDULE 80, 90 DEGREE PVC CONDUIT BENDS)
C. INSTALL 27 FT. MAST ARM POLE WITH A 38 FT. MAST ARM, SIGNAL HEADS, AND SIGN (NOTE: 1-2 IN. AND 2-3 IN. SCHEDULE 80, 90 DEGREE PVC CONDUIT BENDS) SEE NOTE 5.
D. INSTALL ELECTRICAL HANDHOLE
E. INSTALL 1 IN. LIQUID-TIGHT, FLEXIBLE NON-METALLIC CONDUIT (DETECTOR WIRE SLEEVE)
F. INSTALL 3 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT - TRENCHED
G. INSTALL 3 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT - BORED
H. PROPOSED ELECTRICAL SERVICE
J. INSTALL 6 FT. X 30 FT. QUADRUPOLE TYPE LOOP DETECTOR ENCASED IN 1/4 IN. FLEXIBLE TUBING (3-6-3 WINDING)
K. INSTALL MIRCROLOOP PROBE WITH 500 FT. LEAD-IN
L. INSTALL 24 IN. WHITE HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING
M. REMOVE EXISTING MAST ARM POLE, MAST ARM, SIGNAL HEADS, SIGNS, AND CONTROLLER
N. REMOVE EXISTING HANDHOLE
O. REMOVE EXISTING MAST ARM, SIGNAL HEADS, AND SIGNS
P. INSTALL BASE MOUNTED CABINET AND CONTROLLER WITH ALL NECESSARY EQUIPMENT (NOTE: 2-2 IN. AND 2-3 IN. SCHEDULE 80, 90 DEGREE PVC CONDUIT BENDS)
Q. INSTALL 2 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT - TRENCHED
R. INSTALL 2 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT - BORED
S. CUT, CLEAN, GALVANIZE AND CAP MAST ARM
T. INSTALL MIRCROLOOP PROBES WITH 1000 FT. LEAD-IN

UTILITY HEIGHTS

A
C & P = 21' - 0"
C & P = 23' - 5"
CATV = 24' - 7"
NEUTRAL = 32' - 0"
PRIMARY > 34' - 0"

GENERAL NOTES

1. THE LOCATION OF PROPOSED GEOMETRICS MUST BE CONFIRMED PRIOR TO THE INSTALLATION OF SIGNAL EQUIPMENT.
2. LOOP DETECTORS AND CONDUIT SHALL BE INSTALLED PRIOR TO THE INSTALLATION OF PAVEMENT MARKINGS.
3. ALL SIGNAL EQUIPMENT SHALL BE INSTALLED TO FINAL GRADE.
4. ALL UNDERGROUND AND OVERHEAD UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC ONLY AND MAY NOT BE COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING MISS UTILITY PRIOR TO THE CONSTRUCTION SO THAT ALL UTILITIES MAY BE LOCATED IN THE FIELD. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN UTILITIES AND THE TRAFFIC SIGNAL WILL OCCUR, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IMMEDIATELY SO THAT THE CONFLICT MAY BE RESOLVED.
5. GRADE BANK AS REQUIRED TO OBTAIN ADEQUATE MAST ARM HEIGHT.

LEGEND OF UNDERGROUND AND OVERHEAD UTILITIES

AERIAL CABLE	A
ELECTRICAL	E
TELEPHONE	T
GAS	G
SEWER	S
WATER	W
CABLE TV	TV

TRAFFIC CONCEPTS, INC.
Brightview Business Center
325 Gambrills Road
Suite E
Gambrills, MD 21054
(410) 923-7101

REVISIONS	APPROVALS
A 6/28/01 RECONSTUCT EXISTING TRAFFIC SIGNAL TMZ	TEAM LEADER, TRAFFIC ENGINEERING DESIGN DIVISION ASST. CHIEF TRAFFIC ENGINEERING DESIGN DIVISION CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION DIRECTOR, TRAFFIC & SAFETY ORIGINATION FILE

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
SIGNALIZATION DESIGN
MD 648 AT PASADENA RD/CATHERINE AVE

DRAWN BY:	TMZ	F.A.P. NO.	BW485M83	TS NO.	327 A
CHECKED BY:	KWS	S.H.A. NO.		T.I.M.S. NO.	
SCALE:	1" = 20'	COUNTY:	ANNE ARUNDEL	SHEET NO.	1 OF 2
DATE:	6/2001	LOG MILE:	02.69 & N.V.		

F#S